

Site: <u>Linwood Mining</u>
ID #: <u>18D920852297</u>
Br: <u>103</u>
Date: <u>4-24-90</u>

APR 24 1990

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Charles W. Burke  
Linwood Mining and Materials Corp.  
401 East Front St.  
Davenport, Iowa 52804

Dear Mr. Burke:

Enclosed is a copy of the Data Reporting/ Qualification Codes sheet, field sheets, and the analytical results for the two ash samples taken during our followup inspection of the Linwood Quarry site. The samples were collected during November 1989 by Ecology and Environment, a contractor for the U.S. Environmental Protection Agency (EPA).

Although various contaminants were detected in these samples, it does not appear that the levels are significant.

This information is forwarded to you in accordance with the provisions of Section 3007(a) of the Resource Conservation and Recovery Act of 1976 (RCRA) as amended, and Section 104(e)(4)(B) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) as amended. If you have any questions regarding these analytical data, please contact Pete Culver of my staff at (913) 551-7707.

Sincerely yours,

Robert L. Morby  
Chief, Superfund Branch  
Waste Management Division

Enclosure

cc: Pete Hamlin, IDNR (with enclosure)  
Darrell McAllister, IDNR (with enclosure)

bcc: Ralph Langemeier, WATR (w/enclosure)  
Luetta Flournoy, IOWA/RCRA (w/enclosure)



30815340

WSTM:SPFD:PREP:CULVER:final:bh:4/3/90:Disk #4:linw-2mi.ned

PREP

PREP

ATSDR

WATR

SPFD

CULVER

FLOURNOY

HARPER

LANGEMEIER

MORBY

*Culver 4/4/90*

*WAT 4/17/90*  
*Parbur 4-1990*

*Lang 4/20/90*

*Morby 4/23/90*

#### DATA REPORTING / QUALIFICATION CODES

- U - The material was analyzed for, but was not detected. The associated numerical value is the sample detection limit.
- J - The associated numerical value is an estimated quantity (explanation attached).
- I - The data are invalid (compound may or may not be present). Resampling and/or reanalysis is necessary for verification.
- N - Sample not analyzed.

#### CODES FOR FLASH POINT DATA

- L - The sample did not ignite or "flash". This is the highest temperature at which the sample was tested. It is possible that the material may be ignitable at higher temperatures.
- K - The sample did ignite or "flash" at the lowest temperature tested. This is usually the ambient temperature at the time of the test. It is possible that the material may be ignitable at even lower temperatures.

## ANALYSIS TYPE: METALS, TOTAL

TITLE: LINWOOD QUARRY

LAB: SILVER VALLEY

SAMPLE PREP: \_\_\_\_\_

REVIEW LEVEL: 2

ANALYST/ENTRY: PLC

MATRIX: SEDIMENT

METHOD: CS0788A

REVIEWER: o Cox

DATA FILE : P29

UNITS: MG/KG

CASE: 13396

DATE: 01/18/90

SAMPLES	DSX04001	DSX04002
ALUMINUM	8400	5800
ANTIMONY	20 U	17 U
ARSENIC	7.9	7.4
BARIUM	76	66
BERYLLIUM	0.69 J	1.5 U
CADMIUM	1.6 U	1.5 U
CALCIUM	240000	220000
CHROMIUM	14 J	8.7 J
COBALT	4.5 J	2.1 J
COPPER	20	17
IRON	9200 J	7800 J
LEAD	32	23
MAGNESIUM	12000	20000
MANGANESE	290 J	290 J
MERCURY	0.38	0.41
NICKEL	120	110
POTASSIUM	3000	3600
SELENIUM	1.6 U	1.2 J
SILVER	3.3 U	2.9 U
SODIUM	1300 J	1400 J
THALLIUM	1.8 J	2.7 J
VANADIUM	460	430
ZINC	35 J	17 J
CYANIDE	N	N

ANALYSIS TYPE: EP TOXICITY

TITLE: Linwood Quarry  
 LAB: Rocky Mtn. Anal.  
 SAMPLE PREP: \_\_\_\_\_  
 REVIEW LEVEL: 2

MATRIX: WATER  
 METHOD: C0788EM  
 ANALYST/ENTRY: DEW  
 REVIEWER: SK  
 DATA FILE : M96

UNITS: UG/L  
 CASE: 5051G  
 DATE: 02/07/90

SAMPLES	DSX04001	DSX04002
ARSENIC	4.7 J	3.4 J
BARIUM	180 J	240 J
CADMIUM	15 U	15 U
CHROMIUM	25 U	25 U
LEAD	50 U	50 U
MERCURY	0.20 U	0.20 U
SELENIUM	12 J	50 U
SILVER	25 U	25 U

ANALYSIS TYPE: SULFIDE

TITLE: LINWOOD QUARRY  
LAB: ENSECO/RMAL  
SAMPLE PREP: \_\_\_\_\_  
REVIEW LEVEL: 2

MATRIX: FLY ASH  
METHOD: C9030SA  
ANALYST/ENTRY: PLC REVIEWER: pcox  
DATA FILE : P52

UNITS: MG/KG  
CASE: 5150G  
DATE: 02/09/90

SAMPLE NO.	RESULT
DSX04001	.5 U
DSX04002	.5 U

## ANALYSIS TYPE: SEMIVOLATILES--PAGE 1

TITLE: LINWOOD QUARRY

LAB: EIRA

SAMPLE PREP: \_\_\_\_\_ ANALYST/ENTRY: PLC

REVIEW LEVEL: 2

MATRIX: SEDIMENT

METHOD: CS0288A

REVIEWER: PCOX

DATA FILE : P31

UNITS: UG/KG

CASE: 13396

DATE: 01/30/90

SAMPLES	DSX04001	DSX04002
PHENOL	530 U	480 U
BIS(2-CHLOROETHYL) ETHER	530 U	480 U
2-CHLOROPHENOL	530 U	480 U
1,3 DICHLOROBENZENE	530 U	480 U
1,4 DICHLOROBENZENE	530 U	480 U
BENZYL ALCOHOL	530 U	480 U
1,2 DICHLOROBENZENE	530 U	480 U
2-METHYLPHENOL	530 U	480 U
BIS(2-CHLOROISOPROPYL) ETHER	530 U	480 U
4-METHYLPHENOL	530 U	480 U
N-NITROSO-DIPROPYLAMINE	530 U	480 U
HEXACHLOROETHANE	530 U	480 U
NITROBENZENE	530 U	480 U
ISOPHORONE	530 U	480 U
2-NITROPHENOL	530 U	480 U
2,4-DIMETHYLPHENOL	530 U	480 U
BENZOIC ACID	2600 U	2300 U
BIS(2-CHLOROETHOXY) METHANE	530 U	480 U
2,4 DICHLOROPHENOL	530 U	480 U
1,2,4-TRICHLOROBENZENE	530 U	480 U
NAPHTHALENE	140 J	480 U
4-CHLOROANILINE	530 U	480 U
HEXACHLOROBUTADIENE	530 U	480 U
4-CHLORO-3-METHYLPHENOL	530 U	480 U
2-METHYLNAPHTHALENE	230 J	480 U
HEXACHLOROCYCLOPENTADIENE	530 U	480 U
2,4,6-TRICHLOROPHENOL	530 U	480 U
2,4,5-TRICHLOROPHENOL	2600 U	2300 U
2-CHLORONAPHTHALENE	530 U	480 U
2-NITROANILINE	2600 U	2300 U
DIMETHYLPHTHALATE	530 U	480 U
ACENAPHTHYLENE	530 U	480 U
3-NITROANILINE	2600 U	2300 U
ACENAPHTHENE	530 U	480 U
2,4-DINITROPHENOL	2600 U	2300 U
4-NITROPHENOL	2600 U	2300 U
DIBENZOFURAN	530 U	480 U
2,4-DINITROTOLUENE	530 U	480 U

## ANALYSIS TYPE: SEMIVOLATILES--PAGE 2

TITLE: LINWOOD QUARRY

LAB: EIRA

SAMPLE PREP: \_\_\_\_\_

REVIEW LEVEL: 2

ANALYST/ENTRY: PLC

MATRIX: SEDIMENT

METHOD: CS0288A

REVIEWER: P. Cox

DATA FILE : P32

UNITS: UG/KG

CASE: 13396

DATE: 01/30/90

SAMPLES	DSX04001	DSX04002
2,6-DINITROTOLUENE	530 U	480 U
DIETHYLPHTHALATE	530 U	480 U
4-CHLOROPHENYL PHENYL ETHER	530 U	480 U
FLUORENE	530 U	480 U
4-NITROANILINE	2600 U	2300 U
4,6-DINITRO-2-METHYLPHENOL	2600 U	2300 U
N-NITROSODIPHENYLAMINE	530 U	480 U
4-BROMOPHENYL PHENYL ETHER	530 U	480 U
HEXACHLOROBENZENE	530 U	480 U
PENTACHLOROPHENOL	2600 U	2300 U
PHENANTHRENE	530 U	480 U
ANTHRACENE	530 U	480 U
DI-N-BUTYLPHTHALATE	530 U	480 U
FLUORANTHENE	530 U	480 U
PYRENE	530 U	480 U
BUTYL BENZYL PHTHALATE	530 U	480 U
3,3' DICHLOROBENZIDINE	1100 U	960 U
BENZO(A)ANTHRACENE	530 U	480 U
BIS(2-ETHYLHEXYL)PHTHALATE	530 U	480 U
CHRYSENE	530 U	480 U
DI-N-OCTYL PHTHALATE	530 U	480 U
BENZO(B)FLUORANTHENE	530 U	480 U
BENZO(K)FLUORANTHENE	530 U	480 U
BENZO(A)PYRENE	530 U	480 U
INDENO(1,2,3-CD)PYRENE	530 U	480 U
DIBENZO(A,H)ANTHRACENE	530 U	480 U
BENZO(G,H,I)PERYLENE	530 U	480 U

# TENTATIVELY IDENTIFIED COMPOUNDS

TITLE: LINWOOD QUARRY  
 LAB: EIRA  
 ANALYST/ENTRY: PLC  
 REVIEW LEVEL: 2

MATRIX: SEDIMENT  
 METHOD: CS0288A  
 REVIEWER: p.cox  
 DATA FILE : P33

UNITS: UG/KG  
 CASE: 13396  
 DATE: 01/30/90

SAMPLE NO.	COMPOUND NAME	FRACTION	EST. CONCENTRATION
DSX04001			
	C9H12 ISOMER	BNA	600 J
	C10H14 ISOMER	BNA	600 J
	16 UNKNOWN ALKANES	BNA	400-3000 J
	UNKNOWN ALKENE	BNA	400 J
	UNKNOWN	BNA	500 J
DSX04002			
	UNKNOWN ALKANE	BNA	500 J

- \* THIS IS A CRUDE ESTIMATION BASED ON RESPONSE RELATIVE TO AN INTERNAL STANDARD. AN AUTHENTIC STANDARD HAS NOT BEEN RUN.
- \*\* THE COMPOUNDS WERE IDENTIFIED USING A LIBRARY SEARCH ROUTINE. AUTHENTIC STANDARDS HAVE NOT BEEN ANALYZED TO VERIFY COMPOUND MASS SPECTRA AND RETENTION TIMES.



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OFFICIAL BUSINESS

**SENDER INSTRUCTIONS**

Print your name, address and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.



PENALTY FOR PRIVATE  
USE, \$300

RETURN

TO



Print Sender's name, address, and ZIP Code in the space below.

\_\_\_\_ U.S. Environmental Protection Agency  
\_\_\_\_ WSTM/SPFD/PREP  
\_\_\_\_ 726 Minnesota Avenue  
\_\_\_\_ Kansas City, KS 66101  
\_\_\_\_

*Plumber*

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:

Mr. Charles Burke  
Linwood Mining and Materials Corp  
401 East Front Street  
Davenport, IA 52804

4. Article Number

P 564 331 200

Type of Service:

- |   |  |
|---|--|
| <input type="checkbox"/> Registered           | <input type="checkbox"/> Insured                           |
| <input checked="" type="checkbox"/> Certified | <input type="checkbox"/> COD                               |
| <input type="checkbox"/> Express Mail         | <input type="checkbox"/> Return Receipt<br>for Merchandise |

Always obtain signature of addressee  
or agent and DATE DELIVERED.

5. Signature — Addressee

X 401 E Front St.

6. Signature — Agent

X M. Stinson

7. Date of Delivery

4-27-90.

8. Addressee's Address (ONLY if  
requested and fee paid)

P 564 331 200

# RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Back)

Mr. Charles Burke  
 Linwood Mining and Materials Corp.  
 401 East Front Street  
 Davenport, IA 52804

rm 3800, June 1985

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

**STICK POSTAGE STAMPS TO ARTICLE TO COVER FIRST CLASS POSTAGE,  
CERTIFIED MAIL FEE, AND CHARGES FOR ANY SELECTED OPTIONAL SERVICES. (see front)**

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2. If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach and retain the receipt, and mail the article.
3. If you want a return receipt, write the certified mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.
4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.
5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.
6. Save this receipt and present it if you make inquiry.